

Kathy J. Martin, PE

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Current Position

ENVIRONMENTAL CONSULTANT, MARTIN ENVIRONMENTAL SERVICES, NORMAN, OK

Professional engineer in Civil Engineering providing expertise in areas of industrial permitting for air quality, non-hazardous industrial wastewater, and closure of surface impoundments. Perform engineering review and critique of permit applications submitted by swine facilities to regulatory agency with respect to wastewater treatment technology and compliance with environmental regulations.

Education

UNIVERSITY OF OKLAHOMA

M.S. Civil Engineering, 1989

Thesis: The Removal of Polychlorinated Biphenyls from Topsoil Using Nonionic Surfactants

UNIVERSITY OF OKLAHOMA

B.S. Petroleum Engineering, 1987

National Dean's List, 1986-87

Experience

MOBILE MEAT HARVESTING UNIT - *Team member, 2010 to present*

Provide technical assistance in developing water and wastewater treatment strategies for the mobile meat harvesting unit as it relates to slaughter of beef, hog, and poultry, including but not limited to potable water treatment, slaughter waste treatment and disposal, HAACP, and other USDA requirements for small slaughterhouses.

ADJACENT LANDOWNERS TO LIVESTOCK FACILITIES

Subcontracted as Martin Environmental Services, June 1997 to present

Perform technical and regulatory review of approximately 150 CAFO permit applications in 21 states nationally to determine if the application is sufficient for a permit writer to draft a permit. The purpose was to determine if there were technical and/or regulatory deficiencies in the application and prepare a written report for use in administrative proceedings by concerned citizens and adjacent landowners.

SEWARD COUNTY COMMISSIONERS, SEWARD COUNTY, KANSAS

Subcontracted as Martin Environmental Services, June - October 1998

Drafted environmental regulations for confined animal feeding operations (CAFOs) with respect to the design, construction, operation, maintenance, and closure of surface impoundments and the disposal of CAFO waste by land application. The resulting work product was a set of regulations that is a complete permitting program including public notice, hearings, permit application processes and fees, as well as provisions for compliance and enforcement.

DEPARTMENT OF ENVIRONMENTAL QUALITY

Environmental Engineer II, July 1, 1993 to November 1, 1996

Special training in areas of Air Quality and Hazardous Waste permits and regulatory requirements. Provided technical and regulatory assistance to business and industry with respect to environmental permits issued by the ODEQ in water quality, air quality, and solid waste programs.

OKLAHOMA WATER RESOURCES BOARD

Environmental Engineer I, April 1990 to June 30, 1993

Special training in areas of industrial wastewater disposal permits and inspections. Drafted state regulations for surface impoundments and land application of non-hazardous industrial wastewater. Issued state permits for non-discharge facilities. Project officer of Tar Creek Superfund Site.

Technical Expertise

- Professional Engineer in Oklahoma (No. 18254) February 1997 to present
- 15 years continuing education regarding CAFO waste management systems
- Extensive research and knowledge of lagoon liner systems and waste/liner compatibility
- 10 years continuing education regarding pathogen transport and fate from CAFOs
- 13 years continuing education regarding air pollution and odors from CAFOs
- Other topics of continuing education: GPS, perimeter tile design, concrete, and soil science
- Drafted Oklahoma state regulations for permitting of surface impoundments and disposal by land application used by facilities with non-hazardous industrial wastewater
- Drafted county regulations for CAFO impoundments and land application of manure
- Familiarity with CAFO regulations in AR, CA, CO, GA, IA, ID, IL, IN, KS, KY, MO, MS, ND, NE, NM, OK, PA, SD, TX, UT, and WY
- Coordinated Superfund activities between USGS, Oklahoma State and EPA
- Interacted with State Legislators (OK and KS) on technical issues related to CAFOs
- Provide expert testimony regarding CAFO waste management systems in Arkansas, Indiana, Kansas, Kentucky, Missouri, Nebraska, New Mexico, Oklahoma, and Utah
- Provide technical and regulatory reviews of CAFO permit applications in AR, CA, CO, GA, IA, ID, IL, IN, KS, KY, MO, MS, ND, NE, NM, OK, PA, SD, TX, UT, and WY
- Graduate Degree coursework included: Groundwater Protection, Groundwater Seepage, Groundwater Modeling, Groundwater Pollution Control, Air Pollution Controls, Air Pollution Engineering, Environmental Impact Assessment, Risk Assessment, Industrial Hygiene, Reservoir Dam Engineering, Open Channel Flow, Chemical and Biological Aspects of Environmental Engineering, Advanced Wastewater Treatment, Soil Classification, Soil Science, Hazardous Waste Control, Solid Waste Engineering/Landfill Design, Land Use Management, Surfactants and Colloidal Science, Corrosion Engineering, Field Applications, and Nonparametric Statistics.
- Ten years leadership positions in local, state, and national organizations
- Developed state-wide foundry and metal casting facility environmental program in Oklahoma -- and trained state agencies in Louisiana and Arkansas to do the same.
- Active contributor to proposed regulatory language with respect to CAFOs at local, state, and federal levels for past five years.
- Provided lectures on CAFO environmental issues to groups in Oklahoma, Kansas, Nebraska, Indiana, Pennsylvania and Utah to groups as large as 600 people at a time.
- Three years Chinese language

Organizations And Board Positions

- STRONGER NATIONAL BOARD MEMBER – ENVIRONMENTAL STAKEHOLDER (2006-2010)
- DEQ HAZARDOUS WASTE MANAGEMENT COUNCIL - GOVERNOR APPOINTED MEMBER (PAST)
- STRONGER Audit Team - Oil and Gas Environmental Regulations in Oklahoma (2005), Kentucky (2006) and Tennessee (2007)
- Oklahoma Corporation Commission - Citizen Advisory Board member (past)
- Oklahoma Society of Environmental Professionals – Past President, Past Newsletter Editor, Past Secretary, Past Engineering Board Member

- American Society of Agricultural and Biological Engineers (ASABE) – member
- Society of Petroleum Engineers - Past Executive Committee two years, member 10 years
- National Association of Professional/Graduate Students - Past Board member and National Conference Chairperson
- Graduate Student Senate, University of Oklahoma - Past Chair two years, Past Vice Chair, Past Senator for Civil Engineering Department
- Oklahoma Chapter of Sierra Club - past member, 1 year
- Engineering Club of Oklahoma City - past member, 6 years
- OU Petroleum Engineers Club - past Vice President, member 4 years
- OU Society of Women Engineers - past President, member 7 years
- OU Engineer's Club - Loyal Knight Of St. Pat, Member 7 Years